

ABSTRACT

The invention provides a manufacturing process for MEA that enables sufficient bond strength among an electrolyte membrane and electrode substrates even when the electrolyte
5 membrane comprises a heat-resistant material such as an aromatic polymer.

The process comprises pressure bonding an electrolyte membrane with catalyzed electrode substrates to form a membrane-electrode assembly, wherein a good solvent for the
10 electrolyte membrane is applied to at least one of facing surfaces of the opposed electrode substrate and the electrolyte membrane prior to the pressure bonding. The electrolyte membrane may comprise a sulfonated aromatic polymer. The good solvent for the electrolyte membrane may
15 be an aprotic dipolar solvent.